HFA-305 Division of Dockets Management

Date of Approval Letter:

FREEDOM OF INFORMATION SUMMARY

SUPPLEMENTAL NEW ANIMAL DRUG APPLICATION

NADA 140-338

NAXCEL Sterile Powder (ceftiofur sodium)

To establish a 4-day pre-slaughter withdrawal time for swine

Sponsored by:
Pharmacia & Upjohn Company
A Division of Pfizer Inc

140-338

1. **GENERAL INFORMATION:**

a. File Number:

NADA 140-338

b. Sponsor:

Pharmacia & Upjohn Co.

7000 Portage Road

Kalamazoo, MI 49001-0199

Drug Labeler Code: 000009

c. Established Name:

Ceftiofur sodium

d. Proprietary Name:

NAXCEL Sterile Powder

e. Dosage Form;

Sterile powder for reconstitution to injectable solution

How Supplied:

1 and 4 g glass vial

How Dispensed:

Rx

h. Amount of Active Ingredients:

50 mg ceftiofur equivalents (CE) per mL of reconstituted

solution

Route of Administration:

Intramuscular (IM) injection

Species/Class:

Swine

k. Recommended Dosage:

1.36 to 2.27 mg ceftiofur equivalents/lb (3.0 to 5.0 mg/kg) of body weight (1 mL of reconstituted sterile solution per 22 to 37 lb of body weight). Treatment should be repeated at 24 h intervals for a

total of three consecutive days.

Pharmacological Category: Antimicrobial

m. Indications:

NAXCEL Sterile Powder is indicated for

treatment/control of swine bacterial respiratory disease

(swine bacterial pneumonia) associated with Actinobacillus (Haemophilus) pleuropneumoniae, Pasteurella multocida, Salmonella choleraesuis, and

Streptococcus suis type 2.

n. Effect of Supplement:

To establish a 4-day pre-slaughter withdrawal time for

swine

2. EFFECTIVENESS:

This supplement to NADA 140-338 does not change the effectiveness data for this product.

3. TARGET ANIMAL SAFETY:

This supplement to NADA 140-338 does not change the target animal safety data for this product.

4. HUMAN FOOD SAFETY:

A. Toxicology

Complete summaries of all pivotal toxicology studies of ceftiofur pertaining to human food safety are found in the original Human Safety Section of the Freedom of Information Summaries for NADA 140-338 and NADA 141-235 (ceftiofur crystalline free acid, EXCEDE for Swine Sterile Suspension). As described in the Freedom of Information Summary for NADA 141-235, CVM interpreted the results of the Acute Single Dose Intake (ASDI) study summarized in NADA 140-338 to establish a safe concentration of 166 ppm for injection site muscle.

B. Residue Chemistry

The total residue depletion and metabolism data in the target species and comparative metabolism data in the toxicological species for ceftiofur are summarized in the FOI Summaries for NADA 140-338 and NADA 140-890 (ceftiofur hydrochloride, EXCENEL RTU Sterile Suspension). The marker residue in edible tissues is the sum of ceftiofur and desfuroylceftiofur-related metabolites, measured by HPLC as the stable derivative desfuroylceftiofur acetamide (DCA). The target tissue for residue monitoring is kidney and the tolerance is 0.25 ppm. The following pivotal study was conducted to determine the withdrawal period.

1) Title: Decline of ceftiofur and desfuroylceftiofur-related residues in swine tissues after intramuscular administration of ceftiofur sodium (NAXCEL Sterile Powder) to swine at a rate of 5 mg ceftiofur equivalents/kg body weight for three consecutive days (Study Report No. a0100487, 12 March 2002).

Principal Investigators: D.A. Merritt & M.J. Prough, Pharmacia Animal Health, Kalamazoo, MI.

Animal Species: swine.

Breed/Sex: Yorkshire mixed-breed/male and female in equal numbers.

Number of Animals: 36.

Health Status: clinically healthy.

Route of Administration: intramuscular (IM).

Dose Rate: 5 mg of ceftiofur equivalents/kg body weight.

Duration of Dosing: 1 treatment per day at approximately 24-hour intervals for three consecutive days.

Marker Residue Depletion Data: Kidney tissues were collected from six animals at each time point of 3, 24, 48, 72, 96, and 120 hours after the three-day treatment period and were assayed for desfuroylceftiofur-related residue by the HPLC-DCA regulatory assay. This provided kidney residue concentration information as summarized in the following table.

Concentration of Desfuroylceftiofur-related Residue by the HPLC-DCA Assay in Swine Following 3 Days of IM Treatment of NAXCEL Sterile Powder at 5 mg ceftiofur/kg/day

Slaughter Interval, (hours)	Concentration, μg/g * (Mean ± SD)
	Kidney
3	5.4 ± 1.1
24	1.1 ± 0.2
48	0.38 ± 0.09
72	0.18 ± 0.06
96	$(0.073) \pm 0.012$
120	(<lod-0.067)< td=""></lod-0.067)<>

^{*} LOQ = $0.10 \mu g/g$, LOD = $0.050 \mu g/g$. Values <LOQ but >LOD are listed in parentheses.

2) Withdrawal Period

The data from the study above were analyzed by a statistical method which determines the statistical tolerance limit for the 99th percentile of the population with a 95% confidence. At 4 days, the upper 95 percent confidence limit on the 99th percentile for kidney residues was less than the kidney tolerance (0.25 ppm). These data support a 4-day pre-slaughter withdrawal period after intramuscular administration of NAXCEL Sterile Powder in swine when used according to label directions.

C. Microbial Food Safety

This NADA supplement establishes a 4-day pre-slaughter withdrawal period for swine. Because this change to NADA 140-338 does not change the product indication, dose,

dose duration, or other conditions of use beyond the addition of a withdrawal period, an evaluation of Microbial Food Safety was determined not to be necessary at this time for the supplemental approval to this product.

D. Regulatory Method for Residues

The regulatory method for determination of DCA in swine kidney and muscle, and bovine kidney, muscle, and milk is the HPLC-DCA assay which successfully completed a sponsor-monitored multi-laboratory method trial. The method is on file with the Center for Veterinary Medicine, Food and Drug Administration, 7500 Standish Place, Rockville, MD 20855.

5. USER SAFETY:

Studies to evaluate the safety of ceftiofur to users are discussed in detail in the original FOI Summary for NADA 140-338.

Human Warnings are provided on the product labeling as follows:

Not for human use. Keep out of reach of children.

Penicillins and cephalosporins can cause allergic reactions in sensitized individuals. Topical exposures to such antimicrobials, including ceftiofur, may elicit mild to severe allergic reactions in some individuals. Repeated or prolonged exposure may lead to sensitization. Avoid direct contact of the product with the skin, eyes, mouth and clothing.

Persons with a known hypersensitivity to penicillin or cephalosporins should avoid exposure to this product.

In case of accidental eye exposure, flush with water for 15 minutes. In case of accidental skin exposure, wash with soap and water. Remove contaminated clothing. If allergic reaction occurs (e.g., skin rash, hives, difficult breathing), seek medical attention.

The material safety data sheet contains more detailed occupational safety information. To report adverse effects in users, to obtain more information or obtain a material safety data sheet, call 1-800-253-8600.

6. AGENCY CONCLUSIONS:

The data submitted in support of this NADA satisfy the requirements of section 512 of the Federal Food, Drug, and Cosmetic Act and 21 CFR Part 514 of the implementing regulations. The data demonstrate that NAXCEL Sterile Powder, when administered according to the label directions, is safe and effective for the treatment and control of swine bacterial respiratory disease (swine bacterial pneumonia) associated with Actinobacillus (Haemophilus) pleuropneumoniae, Pasteurella multocida, Salmonella choleraesuis, and Streptococcus suis type 2.

Labeling restricts this drug to use by or on order of a licensed veterinarian. This decision was based on the following factors: (a) adequate directions cannot be written to enable lay

persons to appropriately diagnose and subsequently use this product to treat swine respiratory disease, (b) restricting this drug to use by or on order of a licensed veterinarian should help prevent indiscriminate use which could result in violative tissue residues, and (c) the rate of emergence of ceftiofur-resistant organisms may be reduced by the involvement of veterinarians in product use.

This approval does not qualify for marketing exclusivity under section 512(c)(2)(F)(iii) of the Federal Food, Drug, and Cosmetic Act.

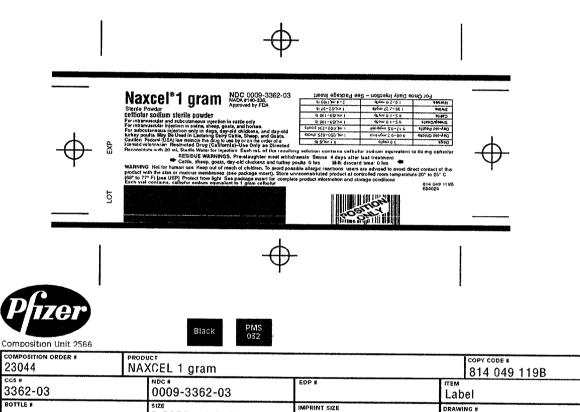
In accordance with the Center's supplemental approval policy 21 CFR 514.106(b)(2)(x), this is a Category II change which did not require a reevaluation of safety and effectiveness data in the parent application.

No patents were submitted with this application.

7. ATTACHMENTS:

Facsimile labeling is attached as indicated below.

- A. NAXCEL Sterile Powder 1 g vial and shipper carton label
- B. NAXCEL Sterile Powder 4 g vial and shipper carton label
- C. NAXCEL Sterile Powder package insert



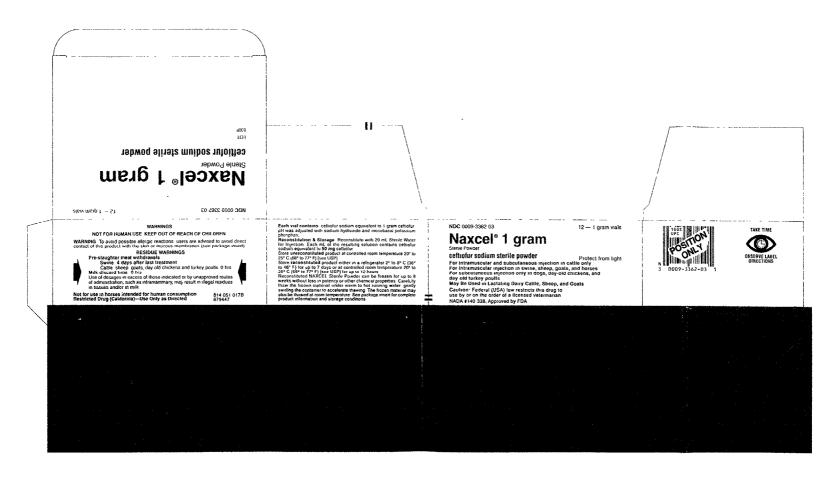
DATE 02/24/04 L. Amos Pantones colors used in this proof may not match the Pantones solid color standards. Use current Pantones swatch guide for most accurate color.

Left side

3.6875 x 1.3125 inches

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on Unit 2566	- 1012 <u>-</u>					
el Calife I	NAXCEL 1 gram			814	1 051 017B	٦
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Naxcel®

4 grams

NDC 0009-3362-04

NADA #140-338, Approved by FDA

Sterile Powder ceftiofur sodium sterile powder

For intramuscular and subcutaneous injection in cattle only.
For intramuscular injection in swine, sheep, goats, and horses.
For subcutaneous injection only in day-old chickens, and day-old turkey poults.
May Be Used in Lactating Dairy Cattle, Sheep, and Goats.

fluoq\gm 2.0-\f.0 stluoq 4es-001\Jm t Day-old Poults dl\gm 7S.S-8E.f 1 mL/22-37 lb dl\gm 0.f = 2.0 di 001-02/Jm 1 Cattle dl\gm 0.f - 2.0 1 mL/50-100 lb Sheep/Goats 1 mL/250-625 chicks 0.08-0 2 mg/chick Day-old Chicks

For Once Daily Injection - See Package Insert

2-4 mL/100 lb dl\gm 0.S-0.1

Caution: Federal (USA) law restricts this drug to use by or on the order of a licensed vetrinanan. Restricted Drug (California)—Use Only as Directed Reconstitute with 80 mL Sterile Water for Injection. Each mL of the resulting solution contains ceftiofur sodium equivalent to 50 mg ceftiofur.

RESIDUE WARNINGS: Pre-slaughter meat withdrawals: Swine: 4 days after last treatment.

Cattle, sheep, goast, day-old chickens and turkey poults: 0 hrs.

WARNING: Not for human use. Keep out of reach of children. To avoid possible allere reactions, users are advised to avoid direct contact of this product with the skin or mucous membranes (see package insert). Store unreconstituted product at controlled room temperature 20° to 25° C (68° to 77° F) [see USP]. Protect from light. See package insert for complete product information and storage conditions. Each vial contains: ceftofur sodium equivalent to 4 grams ceftiofur

D

814 057 120B 694025





Black

Composition Unit 2566

COMPOSITION ORDER # 23043	NAXCEL 4 grams				
ccs # 3362-04	NDC # 0009-3362-04	EDP#	. 9		
BOTTLE #	size 6.125 x 2	IMPRINT SIZE Left side		DRAWING #	
ADDITIONAL INFORMATION			02/24/0	4	L. Amos

Pantone* colors used in this proof may not match the Pantone* solid color standards. Use current Pantone* swatch guide for most accurate color



Horses

LOT

ceffiofur sodium sterile powder

Naxcel® 4 grams

6-4 gram vials

NDC 0008-3395-04

NOT FOR HUMAN USE. KEEP OUT OF REACH OF CHILDREN

WARNING To avoid possible allergic reactions, users are advised to avoid direct contact of this product with the skin or mucous membranes (see package insert)

page insert)

RESIDUE WARNINGS

Pre-slaughter mad withdrawals

Swine. 4 days after last Uniterated

Swine. 4 days after last Uniterated

Swine. 4 days after last Uniterated

Malk discard time 0 hr.

Was of dosages in excess of those indicated or by unapproved routes
of administration such as internammany, may result in riegal residues
in issues and/or in milk.

Not for use in horses intended for human consumption Restricted Drug (California)—Use Only as Directed

814 059 01/B 679448

Each wat contains cefficitur sodium equivatent to 4 grams cellifoldrur, pH was adjusted with sodium hydroxide and monobasic polassium phosphate. The contained the Reconstitution & Storage Reconstitution & Rec

NDC 0009-3362-04

6-4 gram vials

Naxcel® 4 grams

ceftiofur sodium sterile powder Protect from light

For intramuscular and subcutaneous injection in cattle only for intramuscular injection in swine, sheep, goats, and horses. For subcutaneous injection only in day-old chickens, and day-old turkey poults. May Be Used in Lacitating Darry Cattle, Sheep, and Goats

Caution. Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian











Composition Unit 2566						
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Naxcel®

brand of ceftiofur sodium sterile powder

Pharmacia

CAUTION Federal (USA) law restricts this drug to use by or on the order of a licensed vet

settituted product enther in a refrigerator 2" to 8" C (35" to 46" F) for up to controlled room temperature 20" to 25" C (63" to 77" F) (see USF) for up to

hours
Protect from light Color of the cake may very from off white to a tan color Color does
a sheet potency

not affect powery

Mortilles SAUMARE PROCEDURE FOR RECONSTITUTED PRODUCT

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constitution, was mentioning reconstant endough and a read to make only above procedure

for the remaining product if you shot shot shot services a read of the services of the services

	Organism	Sumber Tested	Data	(parint)	SHC Range (parent)
Bovene	Marsheinia hzemolytica	461	1988-1992	5 66	10 03 0 13
	Mannheima haemolytica	42	1993	0 015	\$0 003-0 n
	Pastouralle multioods	318	1958-1992	0.06	10.03-0.25
- 1	Pasteuralis multocida	48	1993	50 003	40 000 0 01
	Hanmophikes somnus	106	1988-1992	0.06	19 03 0 13
	Haemophius somnus	59	1993	10 3519	no range
	Funderdenum necrophorum	17	1994	50 be	no (arge
Swine	Actrobacitus pieceope	83	1993	50.03	19 03-0 05
	Passeurets multorida	74	1993	50.03	50 03-0.0E
	Streplocogrus state	94	1993	0.26	(0.09-1.0
	Salmonette choleraesus	50	1993	10	10-20
	beta-hemolytis Siteptococcus spp	24	1993	£0 03	10 00-0 06
ì	Actinobacitus auto	77	1996	0.0078	0 0010-0 007
	Heamophilis parasuis	76	1998	9.06	0 0039 0 25
Sheep	Mannhemia haemohitos	39	1992	0 13	\$0.03-0 13
	Pasteurella multocida	23	1992	50.03	no range
Canhe	Escherichie poli	4	1992	4.0	0.08-64.0
ĺ	Escherichie coli	16	1990	0.26	D 13-0 5
- 1	Proteus mabilis	37	1990	50.06	0000-05
- 1	Proteurs missbille	23	1992	1.0	10 05 4 0
lunkay	Escherichia coli	1204	1995	1.0	013->320

miration (MIC) for 90% of the includes

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Table 2. Ceftrofur MIC Values of Sactorial textates from Diagnostic Laborat

	Organism	Number Tasted	Date Tested	(point)	MRC Reci
Bowns	Mannheimie haemolytica	110	1997 1908	0.08	60 03-0 2
	Mannhelms heamolytice	139	1998-1999	10.03	50.03-0
	Mannheime heemolytex	209	1999-2000	50 03	\$0,030,1
	Marcheme Nemolytica	189	2000-2001	50 00	≤0 080 1
	Pesteurella multocida	107	1997-1996	≤0.03	100302
	Pasteurelle multocide	181	1998-1999	50 03	≤0 03-0
	Pasteurette multocida	206	1999-2000	\$9.03	50 03-0 1
	Pastaurala mutocada	259	2000-2001	s0 03	±0 03 0 1
	Haemophilus somnue	48	1997-1998	10 03	\$0 030.2
	Heemophika somous	87	1998 1999	≤0 63	£0 03-9 1
	Haemophilus sonnus Haemophilus sonnus	177	1999-2000	\$0.03	\$0.0300
		129	2000-2001	\$0.03	≤0.03-0.1
	Bacteroides fragilis group	20	1994	100	50 06->16
	Bacteroldes spo., non-fragilia group	12	1994	16.0	0 13->16
	Peptostreptococcus anteroblus	12	1994	2.0	0 13-2 0
Swine	Actinobacitika pieuropo.	97	1997 1998	50.00	no range
	Actinobacillus pieuropin	111	1998 1999	50 00	50 03-3.2
	Actorobacillus pleuropor	126	1999-2000	10 03	40 03-0 0
	Actinobacillus pleuropn	89	2000-2001	50 03	50 03-5 0
	Pasteurelle mutocide	114	1997 1998	\$0.03	\$0.031.0
	Pasteurelle mutockie	147	1998-1999	50 03	≤0 03 0.5
	PasieureRs mulocida	173	1999-2000	\$0.03	40.03-00
	Pasteurette multocida	186	2000-2001	50.03	50 03 0 E
	Streptococcus suca	106	1997 1998	0.5	\$0 034.0
	Streptococous surs	142	1998 1999	0.25	20 03 1 0
	Streptococcus suis	146	1999-2000	0.06	40 034 0
	Streptococcus sus	167	2000-2001	0.06	s0 03-4 d
- 1	Salmonella choieransule	96	1999-2000	1.0	0.03->4.0
	Sajmoneže choeraesus	101	2000-2001	10	0520
:Quint	Straptocoocus agen subsp equi	12	1994	\$0,0019	no range
	Streptococcus aqua evidep, aqua	29	2002	£0 03	£0 03-0 05
- [fireplacocus prospidemicus	48	1994	\$0,0013	no range
- 1	Streptococcus 200epidemicus	se	2002	69.03	≤0 03 0 25
	Rhodococcus was	66	1998	40	50 03 16 0
	Rhodooccus aqu	42	2002	80	s0 03->12
- 1	Bacteroides kagilis group	32	1995	>160	G 13->16 C
1	Basteroides spp non-trapits group	12	1995	40	025-40
	Fusobecterium necrophorum	18	1995	\$0.06	no range
	Escheriches cole	26	2000	30	0.25 > 22
	Proteus mirabits		2000	0.45	6 06 0 25
	Escherichie ook	17	1996 1999	1.0	0.26 10
	Escherichia coli	25	1999-2000	0.50	0.12-05
	Escherichus ook	20	2000-2001	5.0	0 12 16 0
	Citrobacter spp	37	1995	32.0	05->320
	Enterobacter app	51	1995	>35.0	0 13 >32.0
- 1	Kleboveke spp	100	1995	10	0 13 20
	Protous spp.	19	1995	10	0 06-32 0
	Pseudomones arg "	31	1995	>32 0	0.06-32.0
	Saimonella spp	24	1995	10	0.5-1 0
Ŀ	Staphylococcus spo (coaquisue positire)	17	1995	20	10-24
- 1	Staphylococrus spo (coagulase negative)	26	1995	8.0	0 13->32 0

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	Organism	Humber Tested	Date Tested	MRC _N (pp/mL)	MIC Range (ug/tot.)
hicken	Escharichia coll	62	1997 1998	0.50	025-20
	Escheriche coll	59	1998 1999	40	0.25-24.0
	Eschenotra coè	87	1999-2000	0.50	0 12 16.0
	Escherichile coli	90	2000-2001	10	50 03-8 0

The following in vitro data are available but their central significance is unknown Minimum hibblory concentration (MSC) for 90% of the notates.

MSC₂₀ is 22 paint.

≥ 21 18-20	±20 40	(S) Susceptible (I) Intermediate
≤ 17	2 8.0	(fil) Registant
eport of "Susceptible" indicat chievable blood levels, A rep	es that the pathogen is i	likely to be inhibited by gen-

Table 3 Acceptable quality control ranges for cettlofor speniet National Committee for Chrical Laboratory Standards recommended American Type Culture Collection (ATICC)

Organism Name (ATCC Number)	Zore Diameter* (mm)	MIC Rends (pg/mL)
Eschenchia coli (25922)	26-31	0.25-10
Staphylococcus aureus (20213)	_	9.25-1.0
Staphylococcus aurieus (26923)	27-31	-
Psecifornonas aeruginosa (27853)	34-18	16 0-54 0
Actinobacifius pleuroprieumonina (27090)	34-42	0.004-0.015
Flaemophikus summus (700025)	36-46	3 0005-0 004**

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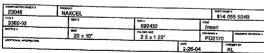
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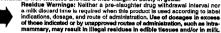


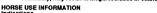


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GOAT USE INFORMATION
Indications
NAXCEL Sterille Powder is indicated for treatment of caprine respiratory disease (goat pneumonia) associated with Mannhelmia haemolytics and Pasteurella multocida.
Dosage and Administration
Dosage and Administration interest of the constant of the constant of the constant of the constant of the sociation per conditions to goal by himmensular injection at the desage of 0.5 to 1.0 mg certicuts per conditions to goal by the concentumed stelle sociation per 100 be body weight. Treatment should be repeated at 24-hour intervals for a total of three consecutive day Agrid, Treatment should be repeated at 24-hour intervals for a total of three consecutive day Agrid, Treatment should be repeated at 24-hour intervals for a total of three consecutive day agrid, Treatment of the consecutive day o





Indications

NAXCEL Sterile Powder is indicated for treatment of respiratory infections in horses associated with Streptococcus zocepidemicus.

Dosage and Administeration

Administer to horses by internuscular injection at the dosage of 1 0 to 2 0 mg cettiofur per pound of body weight (2-4 mf. reconstituted sterile solution per 100 lb body weight). A maximum of 10 ml. may be administered per injection site Treatment should be repeated at 24-hour intervals, continued for 48 hours after clinical signs have disappeared and should not exceed 10 days.

Animal Safety

10 days.
Animal Safety
In a safety study, horses received a daily intramuscular injection of either 0 mg/lb/day (50 mg/mt.), 3.0 mg/lb/day (100 mg/mt.), or 5.0 mg/lb/day (20 mg/mt.), or 6.0 mg/mt.), or 6.0 mg/mt., or



Residue Warnings: Not for use in horses intended for human consumption.



Precautions
The safety of cefticiur has not been determined for horses intended for breeding. The administration of antimicrobials to horses under conditions of stress may be associated with acute distribute that actually be fattal if acute distributes is observed, discontinue use of this amminicrobial and initiate appropriate therapy.

DOG USE INFORMATION

Indications

NAXCEL Stenie Powder is indicated for the treatment of canine urinary tract infections associated with Escherichie coil and Proteus mirabilis.

Desage and Administration

Admini

Reconstituted NAXCEL Sterile Powder is to be administered to dogs by subcuraneous injection. No val closure should be entered more than 20 times. Therefore, only the 1 gram value of the properties of the proper

Precautione

The salety of celtiofur has not been determined for dogs intended for breeding, or preg-pent dogs.

Naxcel

brand of ceftlofur sodium sterile powder

DAY-OLD CHICKEN USE INFORMATION

DAY-OLD CHICKEN USE INFORMATION Indications NAXCEL Sterile Powder is indicated for the control of early mortality, associated with E. coil organisms susceptible to catifoliu, in day-old chicks.

Desage and Administration Administration artificial property of the control of th

DAY-OLD TURKEY POULTS USE INFORMATION Indications

Indications

NAXCEL Sterile Powder is indicated for the control of early mortality, associated with E. coliograms susceptible to cefficiour, in day-old turkey poults

Desage and Administration

Administrat by subcutaneous injection in the neck region of day-old turkey poults at the dosage of 0.17 to 0.5 mg cetifotur/poult. One mt. of the 50 mg/mt. reconstituted solution will treat approximately 100 to 294 day-old turkey poults. Reconstituted NAXCEL Sterile Powder is to be administered by subcutaneous injection

Fleconstituted NAXCEL stellier reviews and account of the constituted NAXCEL stellier reviews and the control of the control o

panied by gross and interest and the CONTRAINDICATIONS

As with all drugs, the use of NAXCEL Sterile Powder is contraindicated in animals previously found to be hypersensitive to the drug

Viousy found to be hypersensitive to the drug

WARNINGS

NOT FOR HUMAN USE. KEEP OUT OF REACH OF CHILDREN.
Restricted Drug (Galifornia) — Use Only as Directed.
Pencillins and cephalosporins can cause allergic reactions in sensitized individuals. Topical exposures to such antimicrobiels, including celetifour, may elicit mild to severe allergic reactions in some individuals. Repeated or profonged exposure may lead to sensitization. Avoid direct contact of the product with the skin, yees, mouth, and clothing.
Persons with a known hypersensitivity to penicallin or cephalosporins should avoid exposure to this product.
In case of accidental eye exposure, flush with water for 15 minutes, in case of accidental skin exposure, weach with scep and water Remove contaminated ciothing. It allergic reaction occurs (e.g., skin rash, hives, difficult breathing), seek medical attention.
The material safety data sheet contains mere destalled occupational safety information The material safety that sheet, each 1-80-025-8600.

ADVERSE REACTIONS

The use of ceftiofur may result in some signs of immediate and transient local pain to the animal

HOW SUPPLIED NAXCEL Sterile Powder is available in the following package sizes

1 gram viai 4 gram viai NDC 0009-3362-03 NDC 0009-3362-04

National Committee for Chrical Laboratory Standards. Performance Standards for Anti-microbial Disk and Dilution Susceptibility Tests for Bacteria Isolated from Animals; Approved Standard – Second Edition NCCIs document M31-A2. NCCLs, 940 West Valley Road, Suile 1400, Wayne, Pannsylvania 19087-1898, 2002.
NADA # 140-338, Approved by FDA

Mfd. for, Pharmacia & Upjohn Company Kalamazoo, Mi 49001, USA

By: SmithKline Beecham Corporation Conshohocken, PA 19428

Revised February 2004



sition Unit 2566



23046	NAXCEL.			814 05	5 524B
3362-03	HDC #	809-4 692432	ITEM Ins	ert	
BOTTLE #	0228 20 x 10"	POLDED SIZE 2.5 x 1.25"	OPAW PC	2170	DRAWING REVISION II
ADDITIONAL INFORMATION			DATE 2-26-04	TYPE KI	SET BY